(19) World Intellectual Property **Organization** International Bureau



(43) International Publication Date 9 June 2005 (09.06.2005)

PCT

(10) International Publication Number WO 2005/051467 A1

(51) International Patent Classification7:

A61M 15/00

(21) International Application Number:

PCT/GB2004/004895

(22) International Filing Date:

19 November 2004 (19.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

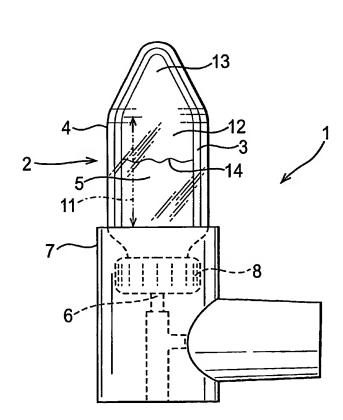
0327112.9

21 November 2003 (21.11.2003) GB

- (71) Applicant: CLINICAL DESIGNS LIMITED [GB/GB]; The Dower House, Aldsworth, Emsworth, Hampshire PO10 8QQ (GB).
- (74) Agent: BROOKS, Nigel; Hill Hampton, East Meon, Petersfield, Hampshire GU32 1QN (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DISPENSER AND RESERVOIR



(57) Abstract: A dispenser (1) has a source (2) of medicament with a transparent reservoir (3) of glass sheathed in a transparent plastics material shrink wrapping (4), which provides an enclosure against explosion of the glass in the event of accidental breakage of the glass. The reservoir contains not only a liquid medicament (5), but also a gaseous propellant liable to cause the glass to explode if broken. A valve (6) of the source is within a body (7) of the dispenser. The valve is attached to the reservoir by a crimped on aluminium sleeve (8). The reservoir is parallel (11) through much of its length, where it has a comparatively large cross-section of its substance space (12), but has a tapered tip (13) remote from the valve (6), where it has a comparatively smaller and decreasing cross section. With the dispenser inverted the level (14) of the medicament (5) is within the tapered tip when the medicament is close to being used up. As use of the dispenser continues, the level falls progressively faster, giving the user an indication that a fresh dispenser will soon be required. Typically the user will take a fresh dispenser with him when the level is such as to indicate that the daily number of doses will exhaust the reservoir.

Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.